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February 22, 2005

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2 4 2005 The Paperwork Reduction Act of 1995, no		PTO/SB/21 (04-04) Approved for use through 07/31/2006. OMB 0651-0031 ent and Trademark Office; U.S. DEPARTMENT OF COMMERCE tion of information unless it displays a valid OMB control number.
MADE	Application Number	10/656,495
TRANSMITTAL	Filing Date	September 5, 2003
FORM	First Named Inventor	Steven Jeffrey Goldberg
(to be used for all correspondence after initial filin	**	2681
	Examiner Name	David R. Hudspeth
Total Number of Pages in This Submission	Attorney Docket Number	I-2-0397.1US
	ENCLOSURES (Check all tha	at apply)
Response to Missing Parts/ Incomplete Application	Communication Re Favora Corresponding International	Other Enclosure(s) (please Identify below): tificate of First Class Mailing; (1 pg.) able IPER by IPEA/US in al Application (2 pgs.); and
Response to Missing Parts under 37 CFR 1.52 or 1.53	Copy of IPER including app	proved claims (/ pgs.).
· · · · · · · · · · · · · · · · · · ·	URE OF APPLICANT, ATTORN	NEY, OR AGENT
Firm John C. Donch Jr.	A Re	eg. No. 43,593
Individual name Volpe and Koenig, P.C). /	
Signature	/	
Date February 22, 2005		
CEF	RTIFIÇATE OF TRANSMISSIO	N/MAILING
		or deposited with the United States Postal Service with atents, P.O. Box 1450, Alexandria, VA 22313-1450 on the
Typed or printed name John C./Dondh	Jr	

Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USP O. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Steven Jeffrey Goldberg

Application No.: 10/656,495

Confirmation No.: 8356

Filed: September 5, 2003

For: VERTICAL DYNAMIC BEAM-

FORMING

Group: 2681

Examiner: David R. Hudspeth

Our File: I-2-0448.1US

Date: February 22, 2005

COMMUNICATION RE FAVORABLE IPER BY IPEA/US IN CORRESPONDING INTERNATIONAL APPLICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This communication is to advise the Examiner of the favorable International Preliminary Examination Report (IPER) issued by the United States Patent and Trademark Office acting as International Preliminary Examination Authority in a corresponding international application. A copy of the IPER is enclosed.

The original PCT claims correspond to the claims in this U.S. application. A copy of the approved claims as published is also enclosed.

Applicant: Steven Jeffrey Goldberg

Application No.: 10/656,495

In view of the fact that PCT claims 1-16 have all been found to meet the international standards of patentability, prompt examination and allowance are respectfully requested.

Respectfully submitted,

Steven Jeffrey Goldberg

John C. Donch Jr.

Registration No. 43,593

(215) 568-6400

Volpe and Koenig, P.C. United Plaza, Suite 1600 30 South 17th Street Philadelphia, PA 19103

JCD/dmr

Enclosures (2)

PATENT COOPERATION TREATY

RECEIVED

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

JOHN C. DONCH, JR. VOLPE AND KOENIG, P.C. **UNITED PLAZA, SUITE 1600** 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103

OCT 12 2004

PE & KOENIG. P.C.

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of Mailing (day/month/year)

08 OCT 2004

Applicant's or agent's file reference

International application No.

I-2-0397.1WO

International filing date (day/month/year)

IMPORTANT NOTIFICATION Priority date (day/month/year)

PCT/US03/27900

08 September 2003 (08.09.2003)

09 September 2002 (09.09.2002)

Applicant

INTERDIGITAL TECHNOLOGY CORPORATION

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Authorized officer

Raymond B. Persino

Telephone No. (703) 308-7528

Facsimile No. (703)305-3230 Form PCT/IPEA/416 (July 1992)

3/9/05 - PCT 30 MONTH DEADLINE

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTIO	IN.	of Transmittal of International mination Report (Form PCT/IPEA/416)	
I-2-0397.1WO International application No.	International filing date (day)	/month/year) P	riority date (day/month/year)	
PCT/US03/27900	08 September 2003 (08.09.20	003)	9 September 2002 (09.09.2002)	
International Patent Classification (IPC)			> 00ptetition 2002 (0310312002)	
IPC(7): H04B 1/38; H04M 1/00 and US	Cl.: 455/562.1; 342/372			
Applicant				
INTERDIGITAL TECHNOLOGY COR	PORATION			
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.				
2. This REPORT consists of	a total of 3 sheets, includ	ling this cover sheet.		
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a	total of sheets.			
3. This report contains indications relating to the following items:				
I Basis of the report				
II Priority				
III Non-establishme	ent of report with regard to	novelty, inventive st	tep and industrial applicability	
IV Lack of unity of	IV Lack of unity of invention			
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial				
applicability; citations and explanations supporting such statement				
VI Certain documents cited				
	efects in the international application			
VIII Certain observations on the international application				
Date of submission of the demand		Date of completion of	this report	
06 April 2004 (06.04.2004)	34	0 September 2004 (30.	09.2004)	
Name and mailing address of the IPEA/US		Authorized officer	0	
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Raymond B. Persino	Penait	
P.O. Box 1450 Alexandria, Virginia 22313-1450		Celephone No. (703) 30	/	
Facsimile No. (703)305-3230				

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US03/27900	

I.	Bas	is of the report
1.	With	regard to the elements of the international application:*
	\bowtie	the international application as originally filed.
	\boxtimes	the description:
		pages 1-16 as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of .
	\square	the claims:
	KY	pages 17-19 , as originally filed
		pages NONE , as amended (together with any statement) under Article 19
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
	\bowtie	the drawings:
		pages 1-7 , as originally filed pages NONE , filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
		pages NONE , as originally filed
		pages NONE, filed with the demand
_	1	pages NONE , filed with the letter of
2.		h regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.
		se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.		n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go
		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
this	s repo	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in or as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/27900

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
I. STATEMENT				
Novelty (N)	Claims	1-16	YES	
		NONE	NO	
Inventive Step (IS)	Claims	•	YES	
	Claims	NONE	NO	
Industrial Applicability (IA)	Claims	1-16	YES	
,	Claims	NONE	NO	